

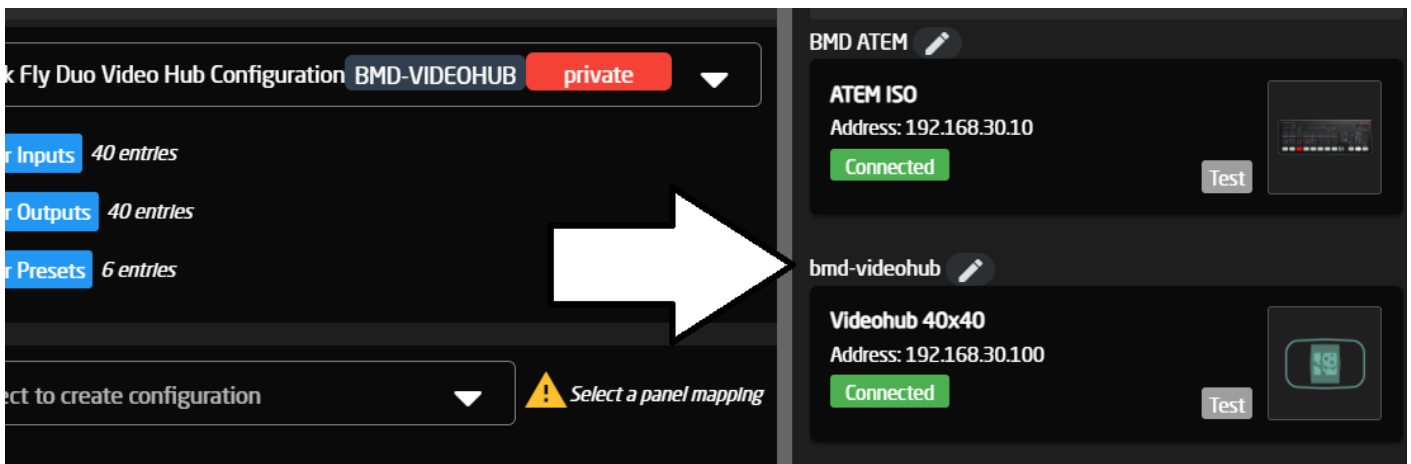
# Introduction to Blue Pill Device Cores

- [Understanding Device Core manuals](#)
- [Parameter List- How To](#)

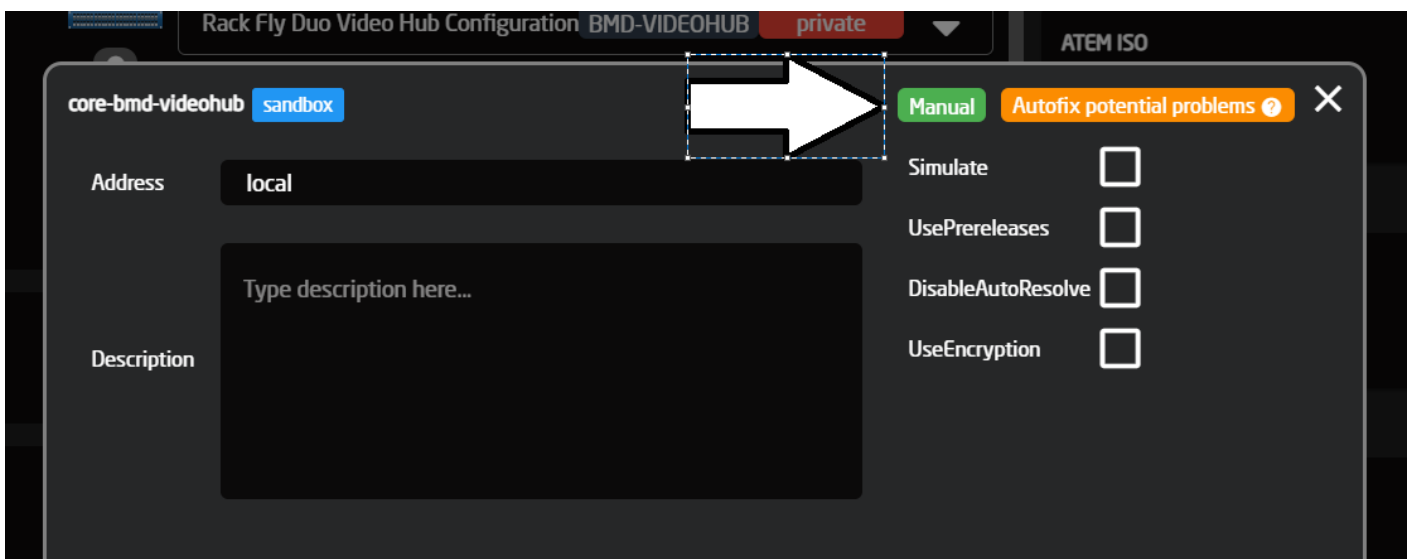
# Understanding Device Core manuals

## Navigating to a Device Manual

Device cores manuals can be accessed from your Blue Pill in the Device Core options popup. Click the title above a device you want to know about, to access this popup.



And then click "Manual"



# How do I use the manual?

The Device core manual is a table view of available and supported parameters of a device core.



## core-bmd-videohub

core for BlackMagic Design Videohub control

Parameter	Videohub 12x12 (1) Blackmagic Design Smart Videohub 12x12	Videohub 16x16 (2) Blackmagic Design Smart Videohub 16x16	Videohub 20x20 (3) Blackmagic Design Smart Videohub 20x20	Videohub 288x288 (6) Blackmagic Design Universal Videohub 288x288	Videohub 40x40 (4) Blackmagic Design Smart Videohub 40x40	Videohub 72x72 (5) Blackmagic Design Universal Videohub 72x72
Presets						
Exists Returns true if preset exists exists	Control: Feedback: Dimensions:	Control: Feedback: Dimensions:	Control: Feedback: Dimensions:	Control: Feedback: Dimensions:	Control: Feedback: Dimensions:	Control: Feedback: Dimensions:
Label Get and set label of presets presetsLabel	Control: String Feedback: Normal (Same) Dimensions: Preset: 20	Control: String Feedback: Normal (Same) Dimensions: Preset: 20	Control: String Feedback: Normal (Same) Dimensions: Preset: 20	Control: String Feedback: Normal (Same) Dimensions: Preset: 288	Control: String Feedback: Normal (Same) Dimensions: Preset: 40	Control: String Feedback: Normal (Same) Dimensions: Preset: 72
Recall Recall a preset with current routes on the panel recallPreset	Control: One-Shot Trigger Feedback: Dimensions: Preset: 20	Control: One-Shot Trigger Feedback: Dimensions: Preset: 20	Control: One-Shot Trigger Feedback: Dimensions: Preset: 20	Control: One-Shot Trigger Feedback: Dimensions: Preset: 288	Control: One-Shot Trigger Feedback: Dimensions: Preset: 40	Control: One-Shot Trigger Feedback: Dimensions: Preset: 72
Store Store a preset with current routes on the panel storePreset	Control: One-Shot Trigger Feedback: Dimensions: Preset: 20	Control: One-Shot Trigger Feedback: Dimensions: Preset: 20	Control: One-Shot Trigger Feedback: Dimensions: Preset: 20	Control: One-Shot Trigger Feedback: Dimensions: Preset: 288	Control: One-Shot Trigger Feedback: Dimensions: Preset: 40	Control: One-Shot Trigger Feedback: Dimensions: Preset: 72
Routing						
Parameter	Videohub 12x12	Videohub 16x16	Videohub 20x20	Videohub 288x288	Videohub 40x40	Videohub 72x72
Input Label Label for the input inputLabel	Control: String Feedback: Normal (Same) Dimensions: Input: 12	Control: String Feedback: Normal (Same) Dimensions: Input: 16	Control: String Feedback: Normal (Same) Dimensions: Input: 20	Control: String Feedback: Normal (Same) Dimensions: Input: 288	Control: String Feedback: Normal (Same) Dimensions: Input: 40	Control: String Feedback: Normal (Same) Dimensions: Input: 72
Output Label Label for the output outputLabel	Control: String Feedback: Normal (Same) Dimensions: Output: 12	Control: String Feedback: Normal (Same) Dimensions: Output: 16	Control: String Feedback: Normal (Same) Dimensions: Output: 20	Control: String Feedback: Normal (Same) Dimensions: Output: 288	Control: String Feedback: Normal (Same) Dimensions: Output: 40	Control: String Feedback: Normal (Same) Dimensions: Output: 72
Route Input to Output Routing a given input to a an output routeInputToOutput	Control: Integer [1 12] Feedback: Normal (Same) Dimensions: Output: 12	Control: Integer [1 16] Feedback: Normal (Same) Dimensions: Output: 16	Control: Integer [1 20] Feedback: Normal (Same) Dimensions: Output: 20	Control: Integer [1 288] Feedback: Normal (Same) Dimensions: Output: 288	Control: Integer [1 40] Feedback: Normal (Same) Dimensions: Output: 40	Control: Integer [1 72] Feedback: Normal (Same) Dimensions: Output: 72
Route Input to Output Opt Routing a given input to a an output via optional routeInputToOutputOpt	Control: Has dynamic options Feedback: Normal (Same) Dimensions: Output: 12	Control: Has dynamic options Feedback: Normal (Same) Dimensions: Output: 16	Control: Has dynamic options Feedback: Normal (Same) Dimensions: Output: 20	Control: Has dynamic options Feedback: Normal (Same) Dimensions: Output: 288	Control: Has dynamic options Feedback: Normal (Same) Dimensions: Output: 40	Control: Has dynamic options Feedback: Normal (Same) Dimensions: Output: 72
Route Output to Output Routing the source found on a given output to another output routeOutputToOutput	Control: Integer [1 12] Feedback: Dimensions: Output: 12	Control: Integer [1 16] Feedback: Dimensions: Output: 16	Control: Integer [1 20] Feedback: Dimensions: Output: 20	Control: Integer [1 288] Feedback: Dimensions: Output: 288	Control: Integer [1 40] Feedback: Dimensions: Output: 40	Control: Integer [1 72] Feedback: Dimensions: Output: 72
config						
Parameter	Videohub 12x12	Videohub 16x16	Videohub 20x20	Videohub 288x288	Videohub 40x40	Videohub 72x72
Connected Connection status of device connection	Control: Feedback: Binary	Control: Feedback: Binary	Control: Feedback: Binary	Control: Feedback: Binary	Control: Feedback: Binary	Control: Feedback: Binary

## Blackmagic Design - Videohub Device Core Manual example

On the left side we have listed all available parameters, and in the top row we list all available models.

Then you can find the model that you want to work with and read which parameters are supported for you exact model

# Parameter List- How To

## How to use the parameter list found on devices.skaarhoj.com

In this example our goal is: Determine what parameters can be controlled for the RED Komodo camera

- Go to the website device.skaarhoj.com
- Search for RED or Komodo to find the coremanual with all the parameters

Name	Package	Latest Version	Description	Maturity	Category	ProClass	StdClass	LightClass	Parameters
RED RCP2	core-red-rcp2	v0.2.3	core for RED RCP2 cameras		Classic Camera	✓	✓	-	<a href="#">PARAMETER LIST</a>

- Click the "parameter list"

In the new window you can see a table with different columns. The first is Parameter, and contains the specific functions that can be controlled in this core. The next columns is for models supported in this devicecore. In our instance its 2 different cameras, the Komodo and V-Raptor.

- If you want to see how Skaarhoj supports *color temperature*, you would simply scroll down the list and find the parameter.

Parameter	Komodo	V-Raptor
<b>Color Temperature Presets</b> <i>Color Temperature Presets</i> temperaturePresets	<b>Control:</b> 0:Incandescent 2800 K 1:Tungsten 3200 K 2:Fluorescent 4500 K 3:Flash 5500 K 4:Daylight 5600 K 5:Cloudy 7500 K 6:Shade 9000 K <b>Feedback:</b> Normal (Same)	

- These names is the exact names you will get in your display on a Skaarhoj Panel  
Note: In this example information about color temperature is handle the same across the two camera models

- We can also take a look at the parameter for contrast. Here the two cameras have different ways of handling this information

Parameter	Komodo	V-Raptor
<b>Output tone map</b> <i>Set Output tone map (aka contrast)</i> toneMap	<b>Control:</b> 0:Low Contrast 1:Medium Contrast 2:High Contrast 3:None <b>Feedback:</b> Normal (Same)	<b>Control:</b> 0:Low Contrast 1:Medium Contrast 2:High Contrast <b>Feedback:</b> Normal (Same)

These parameter list are related to the version of the devicecore you are running. So when troubleshooting please be aware of what version of the device core you are running. (Information about the version is located on the top of the page)



# Blue Pill Reactor

Device Core

## RED RCP2

(Version v0.2.3)

core for RED RCP2 cameras